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anode are positioned to generate X-ray radiation, at least one focusing electron lens, and a device shaping the X-ray radiation beam placed outside the chamber but attached to it, wherein the anode is positioned before a focus of said electron lens along the electron beam path and wherein the device shaping the X-ray radiation beam is a diaphragm, the center of said diaphragm being placed at the focus of said electron lens.

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3. (Amended) An X-ray radiation source of Claim 1 wherein the anode is tightly vacuum-attached to the window for X-ray radiation output and positioned inside that window.

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5. (Amended) An X-ray radiation source of Claim 1, wherein the electron lens has a point focus.

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6. (Amended) An X-ray radiation source of Claim 1, wherein the electron lens has a dash-like focus.

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7. (Amended) An X-ray radiation source of Claim 1, wherein the electron source used is a pulse source.

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